METHOD AND APPARATUS FOR TRANSMITTING SIGNALS IN A MULTI-ANTENNA MOBILE COMMUNICATIONS SYSTEM THAT COMPENSATES FOR CHANNEL VARIATIONS

Abstract

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A method is provided for transmitting signals from a transmitter comprising two or more antennas in a mobile telecommunications network. The method involves determining channel state information, estimating the reliability of that channel state information, and space time block encoding at least one data sequence. Before transmitting the data sequence, a linear transformation is applied to the data sequence so as to at least partially compensate for channel variations. The linear transformation is dependent upon the channel state information and upon the estimated reliability of the channel state information.